

Amdt. dated January 22, 2004
Reply to Office action of 10/22/2003

Serial No. 09/409,633
Docket No. BO999025
Firm No. 0036.0039

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently amended) A method for accessing a control system in a server from a client computer, wherein the control system includes a logon program to enable the client computer to use a terminal emulation program to logon to the server to access a client process executing in the server to perform control system operations, further comprising:
- requesting, with the client, a security context for the client including authorization to allow the client to access control system functions in the server, wherein the security context is associated with a client credential information including access for which the client is authorized, and wherein the server is capable of impersonating the client to generate the security context;
- returning, with the server, the requested security context to the client; and
- transmitting, with a client program executing in the client, a control system command and the security context to access the control system in the server.
2. (Previously presented) The method of claim 1, wherein requesting with the client comprises the client requesting the server to impersonate the client to obtain the security context, further comprising accessing, with the server impersonating the client, the security context to return to the client.
3. (Original) The method of claim 2, wherein the Distributed Computing Environment (DCE) protocol is used to provide the client security context, wherein the client uses the sec_login_become_initiator DCE command to request the server to impersonate the client, wherein the server uses the sec_login_become_impersonator DCE command to impersonate the client to obtain the security context.
4. (Original) The method of claim 1, further comprising:

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converting, with the server, the security context transmitted through the client program to a pointer to credential information of the client;

determining from the credential information, with the server, whether the client is authorized to invoke the transmitted control system command; and

executing, with the server, the control system command transmitted by the client if the client is authorized to invoke the command.

5. (Original) The method of claim 1, wherein the client computer includes a different operating system than the server, wherein the client program executing in the client interacts with the client process executing in the server to perform control system operations.

6. (Original) The method of claim 1, wherein the client requests the security context through a remote procedure call.

7. (Original) The method of claim 1, wherein the control system is a printing systems manager to control printers and printer related objects managed by the server.

8. (Original) The method of claim 7, wherein the printer system manager command transmitted by the client comprises a command to reconfigure at least one printer object, thereby allowing the client computer to perform administrative functions.

9. (Currently amended) A system for accessing a control system in a server from a client computer, wherein the control system includes a logon program to enable the client computer to use a terminal emulation program to logon to the server to access a client process executing in the server to perform control system operations, further comprising:

means for requesting a security context for the client including authorization to allow the client to access control system functions in the server, wherein the security context is associated

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with a client credential information including access for which the client is authorized, and wherein the server is capable of impersonating the client to generate the security context;

means for returning the requested security context to the client; and
means for transmitting with a client program executing in the client a control system command and the security context to access the control system in the server.

10. (Previously presented) The system of claim 9, wherein the means for requesting the security context comprises the server impersonating the client to obtain the security context, further comprising means for accessing, with the server impersonating the client, the security context to return to the client.

11. (Original) The system of claim 10, wherein the Distributed Computing Environment (DCE) protocol is used to provide the client security context, wherein the client uses the sec_login_become_initiator DCE command to request the server to impersonate the client, wherein the server uses the sec_login_become_impersonator DCE command to impersonate the client to obtain the security context.

12. (Original) The system of claim 9, further comprising:
means for converting the security context transmitted through the client interface to a pointer to credential information of the client;
means for determining from the credential information whether the client is authorized to invoke the transmitted control system command; and
means for executing the control system command transmitted by the client if the client is authorized to invoke the command.

13. (Original) The system of claim 9, wherein the client computer includes a different operating system than the server, wherein the client program is part of the client operating

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system, and wherein the client program interacts with the client process executing in the server to perform control system operations.

14. (Original) The system of claim 9, wherein the client requests the security context through a remote procedure call.

15. (Original) The system of claim 9, wherein the control system is a printing systems manager to control printers and printer related objects managed by the server.

16. (Original) The system of claim 15, wherein the printer system manager command transmitted by the client comprises a command to reconfigure at least one printer object, thereby allowing the client computer to perform administrative functions.

17. (Currently amended) An article of manufacture for use in accessing a control system in a server from a client computer, wherein the control system includes a logon program to enable the client computer to use a terminal emulation program to logon to the server to access a client process executing in the server to perform control system operations, the article of manufacture comprising computer usable media including computer programs embedded therein that cause the client and server computer to perform:

requesting, with the client, a security context for the client including authorization to allow the client to access control system functions in the server, wherein the security context is associated with a client credential information including access for which the client is authorized, and wherein the server is capable of impersonating the client to generate the security context;

returning, with the server, the requested security context to the client; and

transmitting, with a client program executing in the client, a control system command and the security context to access the control system in the server.

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18. (Previously presented) The article of manufacture of claim 17, wherein requesting the security context comprises the client requesting the server to impersonate the client to obtain the security context, further comprising accessing, with the server impersonating the client, the security context to return to the client.

19. (Original) The article of manufacture of claim 18, wherein the Distributed Computing Environment (DCE) protocol is used to provide the client security context, wherein the client uses the `sec_login_become_initiator` DCE command to request the server to impersonate the client, wherein the server uses the `sec_login_become_impersonator` DCE command to impersonate the client to obtain the security context.

20. (Original) The article of manufacture of claim 17, further causing the server to perform:

converting the security context transmitted through the client program to a pointer to credential information of the client;

determining from the credential information whether the client is authorized to invoke the transmitted control system command; and


executing the control system command transmitted by the client if the client is authorized to invoke the command.

21. (Original) The article of manufacture of claim 17, wherein the client computer includes a different operating system than the server, wherein the client program executing in the client interacts with the client process executing in the server to perform control system operations.

22. (Original) The article of manufacture of claim 17, wherein the client requests the security context through a remote procedure call.

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 23. (Original) The article of manufacture of claim 17, wherein the control system is a printing systems manager to control printers and printer related objects managed by the server.

24. (Original) The article of manufacture of claim 23, wherein the printer system manager command transmitted by the client comprises a command to reconfigure at least one printer object, thereby allowing the client computer to perform administrative functions.
